

Product datasheet for PH302452

GM2A (NM_000405) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GM2A MS Standard C13 and N15-labeled recombinant protein (NP_000396)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202452
Predicted MW:	20.8 kDa
Protein Sequence:	>RC202452 protein sequence Red=Cloning site Green=Tags(s) MQSLMQAPLLIALGLLLAPAQAHLKKPSQLSSFSDNCDEGKDPVIRSLTLEPDPIVVPGNVTL SVVG STSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCVDLMLIPTGEPCEPLR TYGLPCHCPF KEGTYSLPKSEFVVPDLELPSWLTGNYRIESVLSSSGKRLGCIIAASL KGI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000396
RefSeq Size:	3690
RefSeq ORF:	579
Synonyms:	GM2-AP; SAP-3
Locus ID:	2760
UniProt ID:	P17900



[View online »](#)

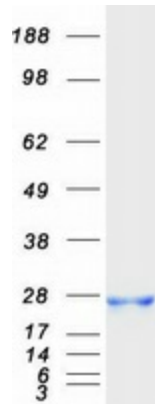
Cytogenetics: 5q33.1

Summary: This gene encodes a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]

Protein Families: Druggable Genome

Protein Pathways: Lysosome

Product images:



Coomassie blue staining of purified GM2A protein (Cat# [TP302452]). The protein was produced from HEK293T cells transfected with GM2A cDNA clone (Cat# [RC202452]) using MegaTran 2.0 (Cat# [TT210002]).